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| 1 | BRS | L1 | 20 | (grayscale or greyscale or gray-scale or grey-scale or (gr!y near1 scale)) same (edge\$4 near3 (direction\$1 or orientation\$1)) same (line\$1 or linear) same (imag\$3 or pixel\$1 or pel\$1 or picture\$1) | US- PGPUB; USPAT | 2007/01/04 15:24 | |
| 2 | BRS | L2 | 2 | 1 same (verif\$6 or authentic\$6 or confirm\$6 or valid\$5 or invalid\$5 or match\$3) | US- PGPUB; USPAT | 2007/01/04 16:51 | |
| 3 | BRS | L3 | 78 | (grayscale or greyscale or gray-scale or grey-scale or (gr!y near1 scale)) same (edge\$4 near3 (direction\$1 or orientation\$1)) | US- PGPUB; USPAT | 2007/01/04 15:06 | |
| 4 | BRS | L4 | 64 | 3 and ((line\$1 or linear) near3 (signal\$1 or data or imag\$3 or object\$1)) | US- PGPUB; USPAT | 2007/01/04 15:06 | |
| 5 | BRS | L6 | 45 | 4 and (edge\$4 near10 (locat\$3 or find\$3 or search\$4 or browz\$3 or brows\$3 or track\$3 or trac\$4)) | US- PGPUB; USPAT | 2007/01/04 15:08 | |
| 6 | BRS | L7 | 34 | 6 and (gradient\$1 or (chang\$3 near2 (intensit\$3 or brightness or light\$4 or lumin\$5))) | US- PGPUB; USPAT | 2007/01/04 15:09 | |

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| 7 | BRS | L8 | 13 | 7 and (edge\$4 near10 (orientation\$1 or direction\$1) near10 (orthogonal or degree\$1)) | US- PGPUB; USPAT | 2007/01/04 15:10 | |
| 8 | BRS | L9 | 10 | 8 and (edge\$4 near10 (verif\$6 or authentic\$6 or confirm\$6 or valid\$5 or invalid\$5 or match\$3)) | US- PGPUB; USPAT | 2007/01/04 15:21 | |
| 9 | IS&R | L10 | 6065 | (382/103,169,190,197,199,20 9,218,305).CCLS. | US- PGPUB; USPAT | 2007/01/04 15:14 | |
| 10 | BRS | L11 | 9 | 9 and 10 | US- PGPUB; USPAT | 2007/01/04 15:17 | |
| 11 | BRS | L15 | 48 | (dens\$5 near5 gradient near6 direction\$1) same edge\$5 same (image\$1 or pixel\$1 or pel\$1 or picture\$1) | US- PGPUB; USPAT | 2007/01/04 15:19 | |
| 12 | BRS | L16 | 44 | 15 and (edge\$4 near10 (direction\$1 or orientation\$1)) | US- PGPUB; USPAT | 2007/01/04 15:20 | |
| 13 | BRS | L17 | 40 | 16 and (line or linear) | US- PGPUB; USPAT | 2007/01/04 15:20 | |
| 14 | BRS | L18 | 13 | 17 and (edge\$4 near10 (verif\$6 or authentic\$6 or confirm\$6 or valid\$5 or invalid\$5 or match\$3)) | US- PGPUB; USPAT | 2007/01/04 15:21 | |

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| 15 | BRS | L19 | 4 | 10 and 18 | US- PGPUB; USPAT | 2007/01/04 15:21 | |
| 16 | BRS | L20 | 1 | "6788817".PN. | USPAT; USOCR | 2007/01/04 15:23 | |
| 17 | BRS | L21 | 2 | 18 and ((grayscale or greyscale or gray-scale or grey-scale or (gr!y near1 scale)) near5 imag\$3) | US- PGPUB; USPAT | 2007/01/04 15:25 | |
| 18 | BRS | L22 | 58 | (edge\$5 near3 direction\$1). same gradient\$1 same (intensit\$3 or densit\$3 or brightness) same (line or linear) | US- PGPUB; USPAT | 2007/01/04 15:26 | |
| 19 | IS&R | L24 | 1093 | (382/151,291).CCLS. | US- PGPUB; USPAT | 2007/01/04 15:27 | |
| 20 | BRS | L23 | 8 | 22 same ((coordinate\$1 or co-ordinate\$1 or location\$1 or position\$3) near10 edge\$5) | US- PGPUB; USPAT | 2007/01/04 15:27 | |
| 21 | BRS | L25 | 76 | search\$4 same (edge\$5 near5 direction\$1) same (pixel\$1 or pel\$1 or picture\$1 or image\$1) same (location or position\$3) | USPAT | 2007/01/04 15:29 | |
| 22 | BRS | L26 | 8 | 25 same ((orthogonal\$2 or parallel or degreee\$1) near10 edge\$5) | USPAT | 2007/01/04 15:30 | |

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| 23 | BRS | L27 | 45 | (edge\$4 near2 direction\$3) same ((verif\$6 or authentic\$6 or confirm\$6 or valid\$5 or invalid\$5 or match\$3) near5 (condition\$3 or critter\$3 or threshold\$3)) | US- PGPUB; USPAT | 2007/01/04 16:52 | |
| 24 | BRS | L28 | 28 | 27 same. (image\$1 or pixel\$1 or pel\$1 or picture\$1) | US- PGPUB; USPAT | 2007/01/04 16:53 | |
| 25 | BRS | L29 | 22 | 28 and (line or segment or linear or straight) | US- PGPUB; USPAT | 2007/01/04 16:53 | |
| 26 | BRS | L30 | 13 | 29 and gradient\$1 | US- PGPUB; USPAT | 2007/01/04 16:53 | |

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» Key

IEEE JNL IEEE Journal or Magazine

IEEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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- ☐ 1. **Data acceptance for automated leukocyte tracking through segmentation spatiotemporal images**
 Ray, N.; Acton, S.T.;
[Biomedical Engineering, IEEE Transactions on](#)
 Volume 52, Issue 10, Oct. 2005 Page(s):1702 - 1712
 Digital Object Identifier 10.1109/TBME.2005.855718
[AbstractPlus](#) | Full Text: [PDF](#)(3272 KB) IEEE JNL
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- ☐ 2. **Pseudoautomatic lip contour detection based on edge direction patterns**
 Gordan, M.; Kotropoulos, C.; Pitas, I.;
[Image and Signal Processing and Analysis, 2001. ISPA 2001. Proceedings of](#)
[International Symposium on](#)
 19-21 June 2001 Page(s):138 - 143
 Digital Object Identifier 10.1109/ISPA.2001.938617
[AbstractPlus](#) | Full Text: [PDF](#)(616 KB) IEEE CNF
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- ☐ 3. **A new heuristic edge extraction technique**
 Shu, J.;
[Acoustics, Speech, and Signal Processing, IEEE International Conference on](#)
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from four **directions**. (8=0°, 45°, 90°, 135°). 6. SUMMARY. This paper discussed an **edge gradient** based representation. of face images for **face verification** ...ieeexplore.ieee.org/iel5/9048/28701/01287684.pdf - [Similar pages](#)**[PDF] Off-line skilled forgery detection using stroke and sub-stroke ...**

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The left **edge direction** represents the present course of the. left road **edge**. ... d) maximum shade of **grey** of the road. e) **gradient** of the road edges ...www.ifp.uni-stuttgart.de/publications/CommIV/bueckner.pdf - [Similar pages](#)**[doc] A COMPLETE SCHEME FOR 3D SCENE RECONSTRUCTION USING STEREO VISION**File Format: Microsoft Word - [View as HTML](#)The **gradient** and the **edge direction** are estimated by evaluating the maximum amplitude (with sign) of the discontinuity between the mean **gray level** computed ...www.dune-sistemi.com/downloads/Articoli_Fabio/ArticoloR.doc - [Similar pages](#)**BAeHR, Hans-Peter; Quint, Franz: Feature extraction for map based ...**The **gradient directions** in Fig. 5 are **gray value** encoded with a ... 4 **Verification** and Interpretation of Image Data The map-based analysis of image data is ...www.ubka.uni-karlsruhe.de/indexer-vvv/1994/bau-verm/4 - 16k - [Cached](#) - [Similar pages](#)**[PDF] Fast Frontal-View Face Detection Using a Multi-path Decision Tree**

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for **edge** processing. It is a **gradient**-based method which ... The **direction** of an **edge** depends on whether. the **gray value** changes from dark to bright or vice ...doi.ieeeecomputersociety.org/10.1109/AFGR.2002.1004177 - [Similar pages](#)**[PDF] ICPR'00: Off-Line Skilled Forgery Detection Using Stroke and Sub ...**

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nitude, b) **gradient direction**, c) **gray level**, d) ... proach for off-line **verification** of signatures by using pressure. features. ...doi.ieeeecomputersociety.org/10.1109/ICPR.2000.906086 - [Similar pages](#)

[Paper] A Scheme for Identification Computation of Palm Lines

A facet function is fit on a patch based on the **gray** values of the patch. ... The **direction of gradient** at the center (0,0) is and from the facet function ...

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For each **edge** element, say at r , the image is resampled locally to obtain a small window with its rows parallel to the image **gradient direction** n ...

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the **edge-directions** by counting the pixels where the **gradient** surpasses a ... 5. a)

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the vehicle detection is realized by hypothesis and **verification** of objects. The ... formed by
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First, we take a **grey** level image of the scene illuminated with a stripe. pattern.

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Classically, to calculate the **direction** of the **gradient** the arctangent is used. ... timing result
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few seconds, and enable an instantaneous **verification** of the patient ... The local **direction**
of the **gradient** at each approximate **edge** point in the image is ...

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Quantitative off-line **verification** is achieved using a maximum. **gradient edge** detection
algorithm to measure individual leaf positions for comparison with ...

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They had very low contrast and some had a **gradient** in **gray**-value intensity due ... "The
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| <u>L4</u> | same edge\$4 same (picture or image or pel or pixel or photo\$6 or frame or video) same (brows\$3 or search\$4 or trac\$3 or track\$3) | 342 | <u>L4</u> |
| <u>L5</u> | L4 same (orientation or direction) | 71 | <u>L5</u> |
| <u>L6</u> | L5 same ((select\$4 or extract\$4) near5 sequen\$6) | 1 | <u>L6</u> |
| <u>L7</u> | L5 same ((select\$4 or extract\$4) near5 sequen\$7 near10 edge\$4) | 1 | <u>L7</u> |
| <u>L8</u> | (gradient near3 (orientation or direction)) same edge\$5 | 1270 | <u>L8</u> |
| <u>L9</u> | L8 same (pel or pixel or picture or image) | 700 | <u>L9</u> |
| <u>L10</u> | L9 same (find\$3 or search\$3 or brows\$3 or browz\$3 or trac\$3 or track\$3) | 136 | <u>L10</u> |
| <u>L11</u> | L10 same (line or linear) | 53 | <u>L11</u> |

L12 L11 same (valid\$6 or confirm\$5 or authentic\$6 or verif\$7)

3 L12

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Last Name = FUJIEDA

First Name = SHIRO

| Application# | Patent# | Status | Date Filed | Title | Inventor Name |
|-----------------|------------|--------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <u>07988921</u> | Not Issued | 164 | 03/12/1993 | APPARATUS AND METHOD FOR DECIDING OR SETTING IDEAL LIGHTING CONDITIONS AND PHOTOGRAPHIC CONDITIONS, ETC., IN IMAGE PROCESSING SYSTEM, OR FOR AIDING IN DECIDING OR SETTING OF THE LIGHTING CONDITIONS | FUJIEDA, SHIRO |
| <u>09445304</u> | Not Issued | 95 | 12/06/1999 | IMAGE PROCESSING APPARATUS AND METHOD, MEDIUM STORING PROGRAM FOR IMAGE PROCESSING, AND INSPECTION APPARATUS | FUJIEDA, SHIRO |
| <u>09974539</u> | Not Issued | 61 | 10/09/2001 | Contour inspection method and apparatus | FUJIEDA, SHIRO |
| <u>09996417</u> | 6954550 | 150 | 11/28/2001 | IMAGE PROCESSING METHOD AND APPARATUS | FUJIEDA, SHIRO |
| <u>10681373</u> | Not Issued | 30 | 10/09/2003 | Image processing apparatus and image processing method | FUJIEDA, SHIRO |
| <u>11373494</u> | Not Issued | 25 | 03/13/2006 | Image processing method, three-dimensional position measuring method and image processing apparatus | FUJIEDA, SHIRO |
| <u>11452433</u> | Not Issued | 25 | 06/14/2006 | Three-dimensional measuring method and three-dimensional measuring apparatus | FUJIEDA, SHIRO |
| <u>11454120</u> | Not Issued | 25 | 06/16/2006 | Image processing apparatus | FUJIEDA, SHIRO |

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1 L1

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